

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Dresden Nuclear Power Station, Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 2 3 7					PAGE (3) 1 OF 0 2									
TITLE (4) Reactor Scram Due to C and D MSL Monitor Trip																								
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)														
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES				DOCKET NUMBER(S)											
0	5	0	2	8	5	8	5	0	2	3	0	0	0	5	2	9	8	5	N/A	0	5	0	0	0
OPERATING MODE (9) N			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																					
POWER LEVEL (10) 0 0 0			20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)									
			20.405(a)(1)(i)				50.36(e)(1)				<input type="checkbox"/> 50.73(a)(2)(v)				73.71(c)									
			20.405(a)(1)(ii)				50.36(c)(2)				<input type="checkbox"/> 50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
			20.405(a)(1)(iii)				50.73(a)(2)(i)				<input type="checkbox"/> 50.73(a)(2)(viii)(A)													
			20.405(a)(1)(iv)				50.73(a)(2)(ii)				<input type="checkbox"/> 50.73(a)(2)(viii)(B)													
			20.405(a)(1)(v)				50.73(a)(2)(iii)				<input type="checkbox"/> 50.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)																								
NAME Michael Moy										TELEPHONE NUMBER AREA CODE 8 1 5 9 4 2 - 2 9 2 0														
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																								
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS														
D				N																				
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR								
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO												

ABSTRACT (Limit to 1400 spaces; i.e., approximately fifteen single-space typewritten lines) (16)

During Unit 2 shutdown, Main Steam Line (MSL) Radiation Monitor Scram and Isolation Functional Test (DOS 1700-1) was performed and a full scram occurred when the "D" channel MSL radiation monitor was tripped. The "D" channel trip produced the expected half scram; however, a "C" channel trip also occurred resulting in the reactor scram. Both channels were reset and "D" channel was tripped again with only the half scram occurring. The "C" channel was tested again and the expected half scram occurred and was reset; however, a second half scram occurred 7 seconds later.

The "C" channel MSL monitor was inspected and it was determined that the monitor produces a spurious trip signal during performance of DOS 1700-1 at low power levels. The signal is produced following saturation of the MSL radiation monitor's indicator.

A caution card was placed on the "C" MSL rad monitor to provide instructions to allow ample time for the monitor to return to its normal setting. A Procedure Inquiry was written to ensure the procedure reflects the time required for the indication to return to normal.

Safety significance of the event was minimal because all of the MSL radiation monitors performed their required function. All other safety systems functioned properly.

This is the first reportable occurrence of this type.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Dresden Nuclear Power Station, Unit 2	0 5 0 0 0 2 3 7 8 5	—	0 2 3	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During Unit 2 shutdown, Main Steam Line (MSL) Radiation Monitor Scram and Isolation Functional Test (DOS 1700-1) was performed and a full scram occurred when the "D" channel MSL radiation monitor was tripped. The "D" channel trip produced the expected half scram; however, a "C" channel trip also occurred resulting in the reactor scram. Both channels were reset and "D" channel was tripped again with only the half scram occurring. The "C" channel was tested again and the half scram occurred and was reset; however 7 seconds later a half scram occurred after the trip test pot had already been run down. The channel was reset and a work request was written to inspect the "C" channel monitor.

The "C" channel MSL radiation monitor was inspected and it was determined that the monitor produces a spurious trip signal during performance of DOS 1700-1 at low power levels. When the trip test pot is run down to the zero position or below, the monitor's indicator becomes saturated and does not immediately return to its original setting. When the indicator returns from the hard downscale position it produces the trip signal causing the half scram. At higher power levels the indicator is not run hard downscale therefore it does not become saturated.

To prevent future spurious signals a caution card was placed on the "C" MSL rad monitor which provided instructions to allow ample time for the "C" channel monitor to return to its normal setting when performing DOS 1700-1. A Procedure Inquiry was written to ensure the procedure reflects the time required for the indication to return to normal.

Safety significance of the event was minimal because all of the MSL radiation monitors performed their required function. All other safety systems functioned properly.

This is the first reportable occurrence of this type.



**Commonwealth Edison**

Dresden Nuclear Power Station

R.R. #1

Morris, Illinois 60450

Telephone 815/942-2920

May 30, 1985

DJS Ltr #85-584

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Licensee Event Report #85-023-0, Docket #050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73 (a)(2)(iv).

D.V. Scott  
Station Manager  
Dresden Nuclear Power Station

DJS/kjl

Enclosure

cc: J.G. Keppler, Regional Administrator, Region III  
File/NRC  
File/Numerical

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